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Managing 100 Digital Humanities Projects: Digital Scholarship & Archiving in King's Digital Lab

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Abstract

During the 2010-2011 Arts and Humanities Research Council (AHRC) investment in extensive archiving and sustainability support to ensure the ongoing management, security, and sustainability of ~100 digital humanities projects which had received AHRC funding (and various others). A team of three people, including two professional archivists and an Archivist at Late Antique Archaeology in Context, Digital Humanities Lab, King's College London, Jane Austen Manuscripts, The Deacon Blue, The Gough Map, and Inquisitions Post Mortem, essays important questions in the history of digital humanities. Of the projects inherited by the lab, about half are either of international significance or contain unique and irreplaceable research data. Many of the remainder are of national importance to the digital humanities community in the United Kingdom. Some are unremarkable. Collectively, they represent a considerable investment. Of the twenty-one around the UK initially funded to archive some of the projects in the lists. This article details the technical solutions, and personnel requirements, that have been needed for the successful migration, preservation, and continued access to these projects.

Digital Humanities (DH) movement has reached an inflection point. On the one hand it appears to be in robust health, with an active community spread around the world, well-attended annual conferences, several well-established journals, and a proliferation of new DH departments, centres, and programmes. On the other hand, there is a growing perception in a regular basis. Activity is particularly strong in the United Kingdom, North America, and Europe, with significant work being done in Australasia, Japan, and parts of Latin America. Digital Humanities initiatives are proliferating at graduate and undergraduate level, and encompass a growing number of disciplines [Hirsch 2012]. Digital Humanities is now a recognised part of the academic landscape, and is frequently mentioned in the same breath as other interdisciplinary fields such as Cognitive Science, Women's Studies, or Area Studies [Svensson 2009]. The whole area is also now the subject of many publications, including a number of publishers' new book series [Gold 2012]. And project teams have been formed to explore every single corner not only by academics but by elegantly worded [Gold 2007]. Despite inheriting a relatively deep tradition, we are only beginning to understand the diverse entanglements that occur over time between digital humanities, administrators, and the wide-ranging, ever-changing, landscape of digital technologies.

While technical digital humanities teams can have a vastly more sophisticated range of options than previous generations, including corporate-grade cloud services and new online services, this has done little to ease the problem of providing sustainable access to digital humanities research outputs. Indeed, the proliferation of options has made it more difficult to choose between them. Many of the tools and services which have been developed specifically for digital humanities projects have been delivered by small organisations and individuals on a project basis. Although many of these have been extremely successful, and have reached critical stages of their lifecycles, an increasingly hostile security-oriented new model DH projects attempted services into institutional networks. Heterogeneous and often delicate technologies have contributed the lack of sustainability of many digital humanities projects. Digital humanities projects frequently have complex requirements, and rely on a wide range of digital technologies. Many projects produce a substantial body of digital research data, but the work is incomplete and of a vulnerable nature – some- and. Some projects, however, exceed their intentions. Rather than aim for perfect success, HDL have chosen to accept archiving and sustainability as a core part of the digital humanities project lifecycle. The realisation of some of the challenges in this area has led to the development of a number of new tools and services, which have been developed in response to the needs of the projects we have worked with.

It is now, however, the sustainable management of digital outputs that has worried beyond their initial funding has become a major problem. It is time to shift our attention and share our conceptual and procedural solutions. Such projects, although of central importance to the wider field of digital humanities and humanities scholarship generally present a range of challenges. In the academic and financial year 2010-2011[1], AHRC worked on 8 to 9 build projects, 20 to 25 standard projects, and 10 to 15 network projects. Of these, 21 were selected for archiving and sustainability support by the Digital Humanities Lab at King's College London in the United Kingdom. Europe and North America. Some projects have been successful in securing additional funding, and are still ongoing. Others have not been successful in securing additional funding, and are now defunct. Of the ~100 digital humanities projects undertaken over twenty years of activity at King's College London and inherited from earlier maintainers of DH, including the Centre for Computing in the Humanities (CCH) and the Centre for Computing in the Arts (CCA), around half are of international significance or contain unique and irreplaceable research data. Many of the remainder are of national importance to the digital humanities community in the United Kingdom. Some are unremarkable. Collectively, they represent a considerable investment. Of the twenty-one around the UK initially funded to archive some of the projects in the lists. This article details the technical solutions, and personnel requirements, that have been needed for the successful migration, preservation, and continued access to these projects. It is increasingly being integrated into global Cloud Data Utilities supported by business, libraries, and other digital humanities teams.

Finding a comprehensive and scalable sustainability solution is fundamental to digital humanities research. Many of the tools and services which are tailored to the local environment and help support not only the complexity and range of digital scholarship, but financial and operational issues and more fundamental problems related to archiving of software systems and digital architectures. This article aims to allow for the fact that digital tools and infrastructure projects, and the wide-ranging, ever-changing, landscape of digital technologies. Many projects produce a substantial body of digital research data, but the work is incomplete and of a vulnerable nature – some- and. Some projects, however, exceed their intentions. Rather than aim for perfect success, HDL have chosen to accept archiving and sustainability as a core part of the digital humanities project lifecycle. The realisation of some of the challenges in this area has led to the development of a number of new tools and services, which have been developed in response to the needs of the projects we have worked with.

Legacy Portfolio

The legacy portfolio supported by HDL is not unique, but significant for its range and scholarly value. It represents a key cross-in the history of digital humanities. Digital Humanities at King's College is indebted to a group of people who were instrumental in developing a range of projects from 1985 onwards. Colleagues like Harold Short, John Bradley, Willard McCarty, Charlotte Roueché, Marilyn Deegan, and Paul Spence, were involved in a remarkable number of digital projects, and played a key role in the early days of the Arts and Humanities Data Service (AHDS), the Text Encoding Initiative (TEI), and various other digital humanities activities. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

Unlike core academic departments, which struggle in teaching as well as research, HDL is dedicated to research software engineering (RSE), and the implementation of the systems, interfaces, tools, and processes that are necessary to support digital research. HDL is not a traditional academic department, but a research software engineering team. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

The HDL group is unique in the UK, and has no direct equivalent in other academic departments or other ways. This is a sizeable "estate" to manage, but the authors are aware of at least one team managing considerably more projects, and more than one team who have suffered serious security breaches because of unsustained applications. Twelve struggling with the issues are located in the United States and Europe as well as the United Kingdom. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

We would like to note that the HDL team has been responsible for a diverse, yet complementary, range of digital projects. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

Policy Context

It is not a technical or digital preservation policy change in the article (either in the UK or other countries), which requires more insight into the complexities of strategy and funding than we possess, but it is important to note that the projects inherited by HDL, and detailed in this paper, were developed using funding that only supported technical development and limited post-launch funding of projects. Limited or no support existed for significant post-launching maintenance, and no support existed for sustainability. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

With the benefit of hindsight this was unfortunate, but perhaps inevitable given the lack of knowledge about the many intersecting issues in play. Many of the projects hosted by HDL were produced during seminal years in the history of the World Wide Web, and in the development of digital humanities. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years. Many of the projects we archive, including Prosopography of Byzantine Asia Minor, Lexicon of Byzantine Sigillography, Corpus of Romanesque Sculpture in Britain and Ireland, Database of Irish Excavation Reports, Stuart Royal Proclamations, Electronic Sawyer, and Nineteenth-century Serials Edition, were among the first digital projects in their fields. Digital Humanities at King's College London has its own rich history, and has been part of the intellectual fabric of many fields for over twenty years.

Although (again) by no means unusual, the details of HDL's technical estate is rare [In 2010 (approximately) we maintained 30 separate machines (physical and virtual) running 15 different operating systems (Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2008 R2 Enterprise, Windows Server 2008 R2 Datacenter, Windows 7 (32 bit), Windows 7 (64 bit), Windows XP, Windows Vista, Windows Vista Enterprise, Windows Vista Ultimate, Windows Vista Business (32 bit), Windows Vista Business (64 bit), Windows Vista Enterprise (32 bit), Windows Vista Enterprise (64 bit), Windows Vista Ultimate (32 bit), Windows Vista Ultimate (64 bit)) running 14 different server applications (Microsoft IIS 6.0, Microsoft IIS 7.0, Microsoft IIS 7.5, Microsoft SQL Server 2000, Microsoft SQL Server 2005, Microsoft SQL Server 2008, Microsoft SQL Server 2008 R2, Microsoft SQL Server 2012, Microsoft Exchange Server 2007, Microsoft Exchange Server 2010, Microsoft Office SharePoint Server 2007, Microsoft Office SharePoint Server 2010, Microsoft Office Web Apps, Microsoft Office Web Apps 2010, Microsoft Office Web Apps 2013, Microsoft Office Web Apps 2013 Preview, Microsoft Office Web Apps 2013 Preview, Microsoft Office Web Apps 2013 Preview